



PATENT APPLICATION

#23/13
1-16-02
Hayes

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Masato SHIMADA, et al.

Appln. No.: 09/199,816

Confirmation No.: Not Yet Assigned

Group Art Unit: 2855

Filed: November 25, 1998

Examiner: Dickens, C

For: INK JET RECORDING HEAD AND INK JET RECORDER

AMENDMENT UNDER 37 C.F.R. § 1.111

Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office Action dated October 10, 2001, please amend the above-identified application as follows:

IN THE CLAIMS:

Please enter the following amended claim:

1. (Twice Amended) In an ink jet recording head of the type having
a flow passage formation substrate in which a pressure generation chamber is formed, said pressure generation chamber being in communication with a nozzle opening,
a diaphragm provided on said flow passage formation substrate, said diaphragm defining an interior wall of said pressure generation chamber, and
a piezoelectric element provided on said diaphragm, said piezoelectric element having at least a lower electrode, a piezoelectric layer, and an upper electrode, the improvement comprising:
at least one of the group consisting of said diaphragm and said piezoelectric element, includes a compression film having a compressive stress, wherein at least a part of a thickness of said compression film is removed in an area opposed to said pressure generation chamber, thereby forming a removal part.

RECEIVED
JAN 14 2002
TC 2800 MAIL ROOM

CD 1/31/02
Do not enter

B'